

DOBESKY, P.; PECHOVA, I.; HORACKOVA, E.; PARIZKOVA, J.; VAVRINKOVA, H.;
techn. spoluprace KLUSONOVA, H.; STORKOTA, H.

Metabolism in obese subjects. Cesk. gastroent. vyz. 16 no.3/4:230-237
Ap '62.

1. Ustav pro vyzkum vysivy lidu v Praze, reditel doc. MUDr. J. Marek,
DrSc.

(DIET REDUCING)

KLUSOV, P.I.

Our experience in disinfection work. Veterinariia 32 no.7:79-82
J1 '55. (MIRA 8:9)

1. Director Zaporozhskoy oblastnoy veterinarno-bakteriologicheskoy
laboratorii.

(DISINFECTION AND DISINFECTANTS)

Klusov, I.A.

PHYS, V.F.; KLUSOV, I.A.

Automatic machine for sorting piece goods by weight. Iss. tekhn.
no. 1:57-60 Ja-F '57. (MIRA 10:4)
(Sorting devices)

KLUSOV, I. A.

Klusov, I. A. (Tula). Application of Statistical Methods in Investigating the Accuracy and Stability of Automatic Checking and Sorting Machines p. 152

Interchangeability, Accuracy and Measuring Methods in Machine Building, Moscow, Mashgis, 1958, 251 pp. (Sbornik Nauchno-tekhn. obshch. mashinostroitel'noy promyshlennosti, Leningradskoye oblasst pravleniya, kn. 47).

This collection of articles deals with the topics discussed at the 3rd Leningrad Sci. and Engineering Conference on Interchangeability, accuracy and Inspection Methods in Machine-building and Instrument-making, held 18-22 Mar 1957.

PLUSOV, I.A., Cand Tech Sci -- (diss) "Theoretical
and experimental study of the accuracy and stability
of ~~calculations~~ ^{performance} of ~~a~~ control-sorting automatic machine
with measuring devices of the mechanical type."
Tula, 1958, 12 pp, 1 separate ~~list~~ ^{sheet} of formulas
(Min of Higher Education USSR. Tula Mechanical
Inst) 160 copies (KL, 29-58, 132)

- 56 -

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 16, p 81 (USSR)

SOV/123-59-16-64162

AUTHOR: Klusov, I.A.

TITLE: Problems of Adjusting Automats for the Checking of Weights of Industrial Piece Goods

PERIODICAL: Tr. Tul'sk. mekhan. in-ta, 1958, vyp. 8, 44-50

ABSTRACT: The article has not been reviewed.

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S/123/61/000/003/018/023
A004/A104

AUTHOR: Klusov, I. A.

TITLE: Calculating the setting time of checking and sorting automatic machines

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 3, 1961, 4, abstract 3E26. ("Tr. Tul'sk. mekhan. in-ta", 1959, no. 17, 101-103)

TEXT: The author gives an account and presents formulae to calculate the time necessary for the setting of multi-position checking and sorting automatics. It is pointed out that the setting time of automatics depends on the method employed for the setting of the measuring positions, structure of automatic, given operation pace, number of measuring positions and sorting groups, as well as on the quality of attendance of the automatics. It is necessary to establish the dependence between the optimum output capacity of the automatics, the given setting accuracy of the measuring positions and the minimum setting time.

R. Skulkova

[Abstractor's note: Complete translation]

Card 1/1

S/118/60/000/010/008/008
A161/A026

AUTHORS: Preys, V. P., and Klusov, I. A., Candidate of Technical Sciences

TITLE: Conference on Production Automation and Automatic Machines Held by
Higher Education Institutions in Tula

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, 1960, No. 10, pp.57-59

TEXT: The conference was convened in June 1960 at Tul'skiy mekhanicheskiy institut (Tula Mechanical Institute) and reflected the development in the industry of the Tula economic region. Doctor of Technical Sciences Professor S. I. Artobolevskiy read the major report in plenary session - "The Theoretical Principles of Comprehensive Mechanization" and stressed that the problem has to be solved by higher technical schools. Tula Sovnarkhoz Chairman I. M. Kratenko spoke of mechanical shield propping used in Moscow region coal mines, and of the first results of work with automated coal cutting machine sets with these shields. Secretary of the Tula CPSU oblast' committee, O. A. Chukanov, outlined the experience of the Tula region enterprises with production automation and the further progress outlook. Much interest was shown in a report by Candidate of Technical Sciences L. N. Koshkin (of Tula Mechanical Institute) on automation of

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production process by the application of rotary transfer machines and their practical use at the industrial plants in Tula. Doctor of Technical Sciences Professor M. I. Slobodkin (Tula Mechanical Institute) reported on the theory of mechanization and automation in mining, and an analytical theory of rock dislodging developed by him. The section of cyclic automation headed by Doctor of Technical Sciences Professor M. A. Mamontov heard, among others, the following particularly interesting reports: by Candidate of Technical Sciences Docent B. M. Podchufarov (of Tula mechanical Institute) - "The Dynamics of Cyclic Automation", and by Engineer A. N. Kuturov (of same institute, TMI) - "Electric Simulation of the Motion of Leading Link in Cyclic Automations". Prof. Mamontov informed in his closing speech on work being done by him and his staff members in the general field of machine dynamics in development of a theory of similarity (being developed by Academician A. A. Andronov) including quasi-dimensional and quasi-scale transformations as well as affine and conformal converters. He considers the electro-simulating method as one of the similarity-method variations. The section of automatic lines, headed by Candidate of Technical Sciences Docent V. P. Preys, heard reports by Candidate of Technical Sciences Docent Ragozin (of TMI) -

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"On the Problem of Automatic Lines (and) Comprehensive Automation in Machine Industry"; Professor D. V. Charnko (of Mosstankin) - "The Structural System of Development of Production Operations, and Its Laws"; Engineer R. A. Georgalin (of OPI) - "Application of the Automatic Transfer Line Theory". Candidate of Technical Sciences V. F. Preys informed on the theory of calculation and designing for automatic loading-orienting hopper devices developed by him, and the results of an experimental study and engineering calculation of these devices. Candidates of Technical Sciences, I. A. Klusov and V. F. Preys, informed in a joint report on the results of a theoretical and experimental investigation into the productivity of rotary machines and automatic rotary lines. Two reports concerned the design of automatic production lines for plastics - by Professor A. I. Zimin of MVTU im. Baumana (MVTU im. Bauman), design with model press mold, and by Engineer Ye. N. Frolovich (of TMI), design with rotary machines. Both these design trends were evaluated as major achievements. Section of automation of work processes in machine production was headed by Candidate of Technical Sciences Docent S. A. Ragozin and heard the following reports. By Candidate of Technical Sciences Docent I. A. Koganov (of TMI) - on machining flat surfaces on standard unit

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machine tools and transfer machines by a complex milling method". By Engineer V. V. Mazurkevich (of MAMI) - on a device for rapid approach of grinding heads in automated grinding of cuts. By Engineer P. P. Yashchenko (of MAMI) - on a study of measuring and controlling devices with pneumo-electric contact transmitters for circular grinders. By Engineer I. A. Nemirovskiy (of TPI) - on experimental static characteristics of uni-coordinate hydraulic copying devices for automation of lathe operations. By Candidate of Technical Sciences P. N. Podurayev (of MVTU im. Bauman) - on vibrational turning of metals in automatic machine lines and automatic machine tools. By Engineer A. G. Tuktanov (MVTU im. Bauman) - on automated small-diameter hole drilling in stainless steel. By Engineer V. M. Karpov (MVTU im. Bauman) - on development of radioactive inspection instruments for automation of production processes. In the section for machine tool program control, guided by Professor Ya. M. Khaymovich, scientific workers exchanged experience. Doctor of Technical Sciences Professor L. M. Kaufman (of Mosstankin) informed on transmitters and electric circuits of tracer-less program control systems. Professor Ya. M. Khaymovich (TMI) reported on simulating devices for filling-in magnetic program tapes and for direct control of machine tools. Engineer G. M. Sheynin (TMI) - read a report on the shape of bent tape interpolat-

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ing the curve passing set points in a simulating device. Engineer V. P. Gornev (MVTU im. Bauman) informed on a simple and reliable program-controlled machine tool design developed at MVTU. Engineer A. Ye. Zverev (MVTU) described a measuring system of his design watching the motion of program-controlled machine tool parts. Docent V. P. Karneyev and Engineer N. S. Anishin informed on modernization of lathes and milling machines converting them into program-controlled ones developed at the Tula Mechanical Institute. Candidate of Technical Sciences Docent E. I. Shekhvits and Engineer V. K. Tsatsenkin reported on work in progress at MEI with electric step motors in program control systems. Engineer O. N. Trifonov (Stankin) spoke of his hydraulic system design that may provide the basis for the design of a hydraulic step motor. Candidate of Technical Sciences Docent Polyanskiy (of Avtomekhanicheskii institut (Automechanical Institute) informed on a new circular grinder developed by the Institute, automatically setting itself for operation corresponding to machining allowance. Engineer V. A. Puzyrev described a program-controlled coordinated table for vertical drilling machines, designed at the Tula Mechanical Institute. Delegates of the Polytechnical Institutes of Gor'kiy and Rostov informed briefly on work with program control at

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their institutes. The section for automation of mining machines and mechanization of mining, headed by Doctor of Technical Sciences Professor M. I. Slobodkin, heard the greatest number of reports at this conference. Results of theoretical and experimental investigations of dislodging coal and rocks with cutters and of the effect of loading rate in the process were given in reports by Doctor of Technical Sciences Professor E. I. Slobodkin (TMI) and Senior Lecturer N. N. Shemarin (TMI), and in co-reports of N. G. Shmonkin, F. Z. Krasnovskiy and B. V. Arshinov. Candidate of Technical Sciences V. V. Nikulin (TMI) reported on the problem of automated stoping machines: development of an easily controlled drive, calculation of optimum work conditions, and automatic computers for control. This work is in progress in cooperation with Kopeyskiy zavod (Kopeysk Plant) that is leading in the RSFSR in manufacturing stoping machines. Many reports concerned the problems of electric drives. Candidate of Technical Sciences I. N. Golosidov (SOI) informed on a regulated electric drive for super-power excavator with electro-mechanical amplifier of longitudinal field; Candidate of Technical Sciences Docent V. A. Kutlunin (TMI) - on automation of pulling-up of hoisting containers by transformation of the armature current frequency of the hoist motor; Docent

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M. I. Kurchaninov (TMI) - on automatic installations at new mines in the Moscow Basin under construction; Candidate of Technical Sciences V. M. Arshinskiy (SOL) - on self-adjusting automatic control system for magnetic separation process; Engineer V. F. Shukaylo (KhOI) - on accidental processes in mining machines. Engineer S. I. Mil'kovitskiy informed on research and designing work in the field of mine shaft drilling done at the UKRNIIProyekt institute of the Gosplan of the UkrSSR. The section of automation and mechanization of foundry work, under guidance of Candidate of Technical Sciences I. P. Fominykh, heard reports on the results of research and the practical application of these results. Information on automated molding lines with sandblast pressing machines and automatic knock-out units in foundries was given in reports by Candidate of Technical Sciences Docent B. V. Rabinovich and Engineer G. M. Orlov (MAMI). Engineer K. S. Rudakov (TMI) spoke on the application of rotary transfer machines in foundry work. Problems of full mechanization with automatic control in the core-making process with complex cores were discussed in the report by Engineer A. V. Valyunevich (MIS), and of shell mold casting in mechanized process in the report of Engineer M. D. Malegin (MIS). Candidate of Technical Sciences Docent I. P. Fominykh and Engineer

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Tsvelen'yev (TMI) described the results of comprehensive mechanization of thin-wall casting production process in bags ("v koshelyakh") and the problems of mechanization and automatic control in the annealing process of malleable cast iron in methodical furnaces with speeded graphitization. Using boron-bismuth additives, or a modifier consisting of five component elements that has been worked out at Tul'skiy kombaynovyy zavod (Tula Combine Plant), [Abstracter's note: the components are not given] graphitization of malleable cast iron in annealing of K4 38-10 (KCh 38-10) grade can be completed in 17 hours. The maximum wall thickness may be no more than 35 mm. General success has been noted in the Conference resolution. It was stressed that more test laboratories at the schools of higher learning are needed. The suggestion has been made to include the subjects "Principles of Production Automation", "Automation of Control" and "Automation and Telemechanics" in the programs of higher technical education institutions.

Card 8/8

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723220006-9

S/122/61/000/004/007/007
D211/D305

AUTHOR: Klusov, I.A., Candidate of Technical Sciences

TITLE: The constructional and technical-economic characteristics of automatic rotating turret machines and automatic mass production lines

PERIODICAL: Vestnik mashinostroyeniya, no. 4, 1961, 74-78

TEXT: The author describes the automatic lines operating on the principle of combining the working and transport - ALCOT (ALSOT), or the so-called automatic rotary lines. Advantages of these are discussed, and the following topics are treated: rigid connection between the operations, high continuity of working, intervals of flow, number of flows and nomenclature, exploitation coefficient (i.e. the ratio of actual productivity to theoretical productivity), regimes of working, equal operational productivity, efficiency of the use of ALSOT. There are 3 figures and 7 Soviet-bloc references.

Card 1/1

KLUSOV, I.A., kand.tekhn.nauk

Structural and technical-economic indices of automatic rotary
machines and lines. Vest.mash. 41 no.4:74-78 Ap '61.
(MIRA 14:3)
(Machinery, Automatic)

KLUSOV, I.A., kand.tekhn.nauk, dotsent; PASTUKHOV, O.A., inzh.

Interprovincial conference on automatic rotary lines in
Tula. Vest.mash. 41 no.11:81-82 N '61. (MIRA 14:11)
(Machine tools) (Automation)

KLUSOV, I.A., kand.tekhn.nauk; SAFARIANTS, A.R., inzh.

Synthesis of transfer-type machine tools. Mekh.i avtom.proisv.
16 no.7:15-20 J1 '62. (MIRA 15:8)
(Machine tools)

8/276/63/000/002/036/052
A052/A126

AUTHOR: Klusov, I.A.

TITLE: Efficiency of automatic rotary machines

PERIODICAL: Referativnyy zhurnal, Tekhnologiya mashinostroyeniya, no. 2,
1963, 155-156, abstract 28837 (Tr. Tul'sk. mashin. in-ta,
no. 16, 1962, 19-31)

TEXT: Formulas are derived for computing the discreteness index of the technological process, that is the relation of the idling time to the time of the technological cycle. The degree of discontinuity of operation of working machine tools is expressed by the discreteness index, i.e. the relation of the execution interval of auxiliary and additional operations to the interval of the kinematic machine cycle. For working rotors with a circular block-holding member the discreteness index ≥ 0.25 (with one tier) and ≥ 0.025 (with ten tiers), for a working rotor with an endless member at one tier it is 0.08, and at ten tiers 0.008. For rotary machines with circular members one must discriminate: kinematic cycle T_{kp} , i.e. the time interval after which the tools in the blocks take starting

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A052/A126

Efficiency of automatic...

positions; technological cycle T_p is equal to the time during which tool blocks handle semi-finished products and also perform auxiliary operations; working cycle T_p the time interval for the rotor to turn by a linear pitch or angle; power cycle T_p which is characterized by the time after which the power consumed in the working rotor for handling of semi-finished products must be repeated. The relation between the cycles is $T_k \geq T_p \geq T_{px} = T_e$. In a general case the theoretical efficiency of a multiflow rotary machine assigned to handle semi-finished products of several denominations is determined by the equation

$$\eta_T = \frac{60}{T_p} \cdot \frac{\sum u_i w_i}{u_p}, \text{ where } T_p = \frac{h_{mp}}{v_{mp}};$$

v_{mp} is for transport travel speeds of semi-finished products in one working and transport rotor; h_{mp} is the linear pitch (the distance between tool blocks or clamps) of the working or transport rotor; u_i is the number of tool blocks for handling semi-finished products of different denominations; u_p is the total number of tool blocks in a rotor; w_i is the number of passes of semi-finished products of respective denominations in the tool blocks.

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A052/A126

The degree of utilization of rotary machines is determined experimentally on the basis of mathematical statistical handling of the data obtained in the process of service. The utilization coefficient obtained for 19 rotary machines $\beta = 86.75\%$. The results of this investigation are presented in a table. The measures for raising the utilization coefficient of rotary machines must be directed to the improvement of the work of automatic change assemblies and to the improvement of the tool block design with the purpose of cutting the time for auxiliary operations after their replacement. Schemes of rotary machines with a circular member, multiflow rotor and sections of rotary machines are presented. There are 3 figures, 1 table and 4 references.

M. Degtyareva

(Abstracter's note: Complete translation.)

Card 3/3

KLUSOV, I.A.

Analysis and synthesis of transmissions for automatic
lines of rotary forging machines. Kum.-shtam. proizv. 5
no.10:18-24 0 '63. (MIRA 16:11)

ARTOMILEVSKIY, S.I., doktor tekhn. nauk, prof. [deceased]; KUBCOV, I.A.,
kand. tekhn. nauk, dotsent; ISTINOV, V.G., inzh.

Energy investigation of power drives of automatic engineering
machines. Izv. vys. uchet. zav.; mashinostr. no.2:174-186 '64.
(MIRA 17:5)

1. Tul'skiy mekhanicheskii institut.

ACCESSION NR: AP4040665

S/0122/64/000/006/0071/0074

AUTHOR: Klusov, I. A. (Candidate of technical sciences, Docent)

TITLE: The reliability of rotary automatic lines

SOURCE: Vestnik mashinostroyeniya, no. 6, 1964, 71-74

TOPIC TAGS: assembly line, statistical distribution, maintenance cycle, production standard

ABSTRACT: A general study was made to establish quantitative reliability estimates for the purpose of maintaining production standards on rotary assembly lines. The quantitative reliability magnitude H is given as the sum of the theoretical reliability level H_1 and the deviation H_2 , caused by changes arising during execution of a given plan, work-range, actual operation of the plan, etc. A utilization factor β is defined whose magnitude is predetermined by the combined time of unit intervals T_n of automatic line efficiency recovery, or

$$T_n = \sum T_i = T_0(1 - \beta) = T_0 \left(1 - \frac{T_2}{T_1}\right)$$

where T_0 - normalized operation time, T_1 , T_2 - theoretical and actual consump-

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ACCESSION NR: AP4040665

tion in pieces/min. Loss of efficiency in the assembly line is attributed to breakdown, failure, and wear. Removal from service of various parts caused by any of the above three conditions is assumed to be an independent event, thus allowing one to write an expression for useful service time for the rotary line element

$$p(t) = k_1 p_1(t) + k_2 p_2(t) + k_3 p_3(t).$$

where k_i - normalizing coefficients; p_1, p_2, p_3 - distribution functions corresponding to lifetime before breakdown, failure, and wear, respectively. The k_i 's are determined experimentally as the ratio of elements removed from service to the total number of elements N . A joint statistical distribution law is then established for a single instrument on the assembly line given by

$$p(t) = k_1 \lambda \exp(-\lambda t) +$$

$$+ \frac{k_2}{\sqrt{2\pi} \sigma_{1n}} \exp\left[-\frac{(t - \tau_1)^2}{2\sigma_{1n}^2}\right] +$$

$$+ \frac{k_3}{\sqrt{2\pi} \sigma_{2n}} \exp\left[-\frac{(t - \tau_2)^2}{2\sigma_{2n}^2}\right].$$

where σ - mean square deviation, λ - parameter for breakdown distribution function.

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ACCESSION NR: AP4040665

The reliability $H_{\Sigma}(t)$ of all the assembly lines is then given as a function of the reliability $H_1(t)$ per element. The time consumed in replacing a defective element in the assembly line is divided into several subintervals, and it is shown that automatic replacement effectively shortens this time. A maintenance cycle period is then introduced and shown to depend on replacement time, durability of the instrument, and number of rotors in the assembly line. The analysis is completed by introducing a factor of safety coefficient, a coefficient to allow for unnecessary replacements of otherwise normal pieces, and as underload factor. Orig. art. has: 18 formulas and 2 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: IE

NO REF SOV: 004

OTHER: 000

Card 3/3

KLISOV, I.A., kand. tekhn. nauk; USTINOV, V.O., inzh.

Efficiency of industrial machines. Mekh. i avtom. proizv. 18
no.10:43-48 0 '64. (MIRA 17:12)

KLUSOV, I.A.; SAFARYANTS, A.R.

Reliability of automatic transfer machines for checking
and sorting parts. Izv. tekhn. no.5:5-8 My '65.

(MIRA 18:8)

ACC NR. AT7007358

SOURCE CODE: UR/0000/66/000/000/0233/0242

AUTHOR: Klusov, I. A.

ORG: None

TITLE: Basic problems in the theory of automatic rotary production lines

SOURCE: Soveshchaniye po avtomatizatsii protsessov mashinostroyeniya. 4th, 1964. Avtomatizatsiya protsessov svarki i obrabotki davleniyem (Automation of welding and pressure treatment processes); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1966, 233-242

TOPIC TAGS: industrial automation, production engineering

ABSTRACT: The author discusses the fundamental problems involved in the theory and design of automatic production lines consisting of rotary machines, i. e. machines which combine finishing and transfer processes operating along a continuous closed plane or three-dimensional trajectory. The basic theory of this type of automation is outlined, fundamental concepts are defined and synthesis of rotary transfer machines and production lines is analyzed. Problems of productivity, reliability and efficiency are considered. Analysis of experimental data shows that the reliability of rotary automatic production lines may be increased by stepping up the quality of machining units and improving the conditions under which they must operate. Orig. art. has: 2 figures, 1 table, 22 formulas.

SUB CODE: 13/ SUBM DATE: None/ ORIG REF: 009

Cord 1/1

KLUSOV, H. gvardii mayor.

Mass sport training in small units. Voen.vest 35 no.5:89-91 My '55.
(Russia--Army--Sports) (MIRA 9:7)

KLUSOV, B.V.

Simplification of the worker's accounts. Tekst.prom. 16 no.11:62
N '56. (MIRA 9:12)

1. Nachal'nik Planovogo otdela Novo-Pistsovskogo l'no kombinata.
(Textile industry--Accounting) (Wages)

KLUSOV, Y. A., (Ing.)

Ing. Y. A. Klusov, "Investigation of the Deviation of the Cyclic Diagram of an Automatic Sorter with Six Positions."

paper presented at the 2nd All-Union Conf. on Fundamental Problems in the Theory of Machines and Mechanisms, Moscow, USSR, 24-28 March 1958.

KLUSOV YE.

COUNTRY : Mexico
 CATEGORY : Cultivated Plants. Industrial. Oleiferous. M
 AEG. JOUR. : Sugar.
 : RZhDol., No. 3, 1959, No. 11017
 AUTHOR : Klusov, Ye.
 INST. :
 TITLE : The Cotton Growing of Mexico (A Brief Economic Survey).
 ORIG. PUB. : Khlopkovodstvo, 1958, No. 1, 59-61
 ABSTRACT : No abstract.

CARD: 1/1

KLUSOV YE.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723220006-9

Gas industry of Mexico. Gas.prom. 4 no.6:52-54 Je '59.

(MIRA 12:8)

(Mexico--Gas, Natural) (Mexico--Petroleum)

KLUSS, T.

Kluss T.

Kluss T., Eng. "The Reduction of Angles Measured with Optional Methods into a Full Series of Directions." (Zmiana katow mierzonych dowolnymi metodami w pelna serie kierunkow). Przegląd Geodezyjny, No. 6-7, 1950, pp. 178-184, 9 figs., 2 tabs.

The problem of station equalizing on incomplete series by the exact Bessel's method and by Helmert's method. This can be obtained by use of the system of equipollent equations of errors. Some cases of observation of various angles with a various number of directions: weights of angles and of directions. The effect of station equalizing with the directions of more or less equal weights can be obtained by a proper selection of additional directions (auxiliary) and by properly combining them with previous directions (real).

SO: Polish Technical Abstracts - No. 2, 1951

KLOSS, T.

"The adjustment of systems by means of azimuths." Pt. 2, p. 100. (Przeglad
Geodezyjny. Vol. 9, no. 4, April 1953. Warszawa.)

SO: Monthly List of East European Accessions, Vol. 3, Nos. 2, Library of Congress,
February 1954, Uncl.

KLUSS, T.

Auxiliary numerical tables for transposition of geographic coordinates according to Professor Milbert's method.

P. 107 (PRACE. PROCEEDINGS) Poland, Vol 5, No. 1, 1957.

SO: Monthly Index of East European Accessions (AHEI) Vol. 6, No. 11, November 1957.

8/035/62/000/010/112/128
A001/A101

AUTHOR: Kluss, Tadeusz

TITLE: Transformation of coordinates

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 10, 1962, 35 - 36, abstract 100188 ("Compte rendu 1-er sympos. internat. calculs geod. Cracovie, 1959", Cracow, 1961, 139 - 152, German)

TEXT: The author uses the term "transformation" in a wide sense. He considers the methods of coordinate transformation at geodetic works, based on cracowian calculus. With a reference to Milbert ("Geod. i kartogr.", 1952, v. 1, no. 4), he presents the solution of the direct geodetic problem in the cracowian form for distances up to 500 km (an example of transforming polar coordinates into rectangular ones). Further are given: a) transformation of spheroidal and Gauss-Krueger coordinates into geographic coordinates and vice versa; b) transformation of spheroidal coordinates into Gauss-Krueger coordinates with an intermediate transformation into geographic coordinates; c) recalculation of Gauss-Krueger coordinates from one three-degree zone into the other one. Numerical examples and calculation schemes are presented for the

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KLUSS, Tadeusz

Transformation of coordinates based on joint points. Prace inst
geod 11 no.1:11-68 '64.

BUTIAKOV, A.A.; SHMELEVA, V.M.; IRKHO, O.G.; ROZHINA, L.I.; KLUS3, Yu.A.;
AKSYUTICH, Yu.A.

Conference of the readers of the periodical Plasticheskie massy.
Plast. massy no.4:79 '65. (MIRA 18:6)

EDLAN, A.; KLUST, M.

Complex treatment of mandibular prognathism. Cesk. stomat.
65 no.6:458-466 N '65.

1. Stomatologicka klinika lekarske fakulty Karlovy University
v Plzni (prednosta prof. dr. A. Edlan, DrSc.).

CZECHOSLOVAKIA

UDC: 612.766.1:612.014.4.9

KVETENSKY, Josef, LtCol, MD; KLUST, Vaclav, LtCol, MD; ZAORALEK, Alois, LtCol, MD; VLCEK, Lubos, MD; HLAUCO, Stanislav, Maj, MD; HUBES, Vaclav

"Effects of a 100-Kilometer Nonstop March on the Human Organism."

Prague, Vojenske Zdravotnicke Listy, Vol 35, No 5, Oct 66, pp 194-197

Abstract [Czech, Russian and English summaries, modified]: A brief preliminary evaluation of some changes in the organisms of persons after a 100-km nonstop march. Although in most cases the changes were insignificant, such a march is fatiguing; only physically fit persons should be allowed to participate; check-ups and medical supervision during the march should be mandatory. A tabulated statistical evaluation is presented of the before-and-after dynamometric measurements, vital capacity, blood pressure and pulse rate. Seven Soviet-bloc refs.

1/1

ZAORALEK, A.; KVETENSKY, J.; KLUST, V.; HLAUCO, S.; DOSTALOVA, M.; Laboratory Department (Laboratorni Oddeleni), Head (Vedouci) Dr. A. ZAORALEK; Internal Department (Vnitri Oddeleni) Head (Vedouci) Dr. J. KVETENSKY; Department of Medical Aspects of Sports (Sportovne Lekarske Oddeleni) Head (Vedouci) Dr. V. KLUST; Psychiatric Department (Psychiatricke Oddeleni) Head (Vedouci) Dr. S. HLAUCO; Hospital (Vojenske Nemocnice) of the Slovak National Uprising (SNP), Ruzomberok.

"Some Hematological and Biochemical Symptoms Caused by Excessive Exertion"

Prague, Vojenske Zdravotnicke Listy, Vol 35, No 4, Aug 66, pp 152-155

Abstract: Influence of a march of 100 km on 12 healthy subjects was investigated; the absolute number of neutrophil granulocytes increased, and of eosinophils decreased. Non-segmented neutrophils and Rieder's form of lymphocytes increased, blood level of EPA, cholesterol, and the beta fraction of blood proteins decreased. The level of inorganic P and the activity of serum transaminases increased. 5 Figures, 57 references (not specified).

1/1

KLEMENTES, Mieczyslaw, Mgr. inz. (Bytom, Poland); KUCZYNSKI, Alexander, Mgr. inz. (Bytom, Poland); BLOD, Gerard, Ing. (Bytom, Poland).

Technological development and its effect on labor productivity in copper mining in Poland. Rudy 12 no. 7/8:222-225 J1-1212

(P. 24 17:3)

GLOWACZ, Kazimierz, ins.; KLUSZCZYNSKI, Aleksander, mgr., inz.; SEWERNI SKI,
Boguslaw, dr., ins.

Mining of nonferrous ores in Yugoslavia. Pt.3. Rudy i metale
6 no.12:551-559 D '61.

SUWALA, Edward; PORABKA, Eryk; KLUSZCZYNSKI, Aleksander

Address of the General Meeting of the Association of
Mining Engineers and Technicians to Wladyslaw Gomułka,
First Secretary of the Central Committee of the Polish
United Workers Party. Wiadom gorn 15 no.5:150 My'64.

1. Presidium of the General Meeting of the Association
of Mining Engineers and Technicians.

007/009

S/143/61/000/011/007/009
D203/D302

AUTHORS:

Klutateladze, S. S., Doctor of Technical Sciences,
Professor, and Konsetov, V. V., Engineer

TITLE:

Heat exchange during condensation of steam inside ver-
tical pipes

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Energetika,
no. 11, 1961, 63-69

TEXT: The process requires at least a qualitative analysis to in-
terrelate the variables involved. The effect of steam velocity on
the turbulent condensed film is considered. Semi-empirical formu-
lae for heat transfer are derived from the generalized Reynolds
analogy where $m = .3 - .4$, and the equation of motion of the film
(expressed as the balance of tangential stresses). Assuming that

$$\xi = A_1 Re^{n_1}$$

$$\xi'' = A_2 Re^{n_2}$$

(3)

Card 1/4

S/143/61/000/011/007/009
D203/D302

Heat exchange during ...

the latter is first reduced to a dimensionless form. Suffix 1 re-
fers to water. Suffix 2 and double prime refer to steam. The ge-
neral formula for heat transfer is deduced and simplified for the
cases of small steam velocity ($v = 0$) and high steam velocity. The
authors then consider the flow in a vertical pipe with a constant
density ρ of heat flow through the cooling surface and deduce equa-
tions for the heat transfer. Mean coefficients of heat transfer α
were found by the authors experimentally for high pressures (10 to
40°C) steam and high heat loads ($10^5 - 1.2 \times 10^6$ kcal/m²/hr) and
for the evaporation coefficient $\lambda = 0 - 15\%$. The dimensions of the
pipe were: $d = 10$ mm, $l = 2.2$ and 3.2 m. Gravity must be taken into
account if $\frac{g}{\alpha_0} \leq 3$. For this case the heat transfer equation can be
simplified to

$$\frac{\alpha}{\alpha_0} = 1 + 0.045 \left(\frac{\xi''}{\gamma} \right)^{0.3} \frac{w_0}{\sqrt{g}}$$

(4)

Card 2/4

Heat exchange during ...

S/143/61/000/011/007/009
D203/D302

On the basis of this the existing experimental data are generalized
For $\frac{\alpha_d}{\alpha_0} \leq 3$ the simpler equation

$$\frac{\alpha_d}{\lambda} \varphi^{-1} \text{Pr}^{-0,4} = f_2(\varepsilon) \left(\frac{f}{f_0} \right)^{0,4} \left(\frac{v'}{v} \right)^{0,1} \text{Re}^{0,8} \quad (21)$$

can be used. There are 3 figures, 1 table and 6 references: 2 Soviet-bloc and 4 non-Soviet-bloc. The references to the English-language publications read as follows: A. Colburn, Chem. Engng. Prog. No. 4, (1934); A. Colburn, E. Capneuter, "The effect of vapour velocity on condensation inside tube", General Discussion on Heat Transfer, London, 1951; J. Tepe and A. Mueller, "Condensation and subcooling inside inclined tube", Chem. Engng. Prog. no. 43, p. 267 - 268, (1943).

Card 3/4

Heat exchange during ...

S/143/61/000/001/007/003
D205/D102

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy kotloturbinnyy
institut imeni I. I. Polzunova (Central Scientific
Research Boiler and Turbine Institute imeni I. I.
Polzunov)

SUBMITTED: July 21, 1960

Card 4/4

PITERSKOV, N., inzh.; RYAZANTSEV, K., inzh.; IVLEV, N., inzh.;
KLUTS, L., inzh.; BARANOV, L., inzh.

Duty of every worker is to work without accidents. Okhr.
truda i sots. strakh. 6 no.6:28-31 Ja '63. (MIRA 16:8)

KLUTS, L.; KOTLYAR, L.; CHUGUNKIN, P.; SURAY, I.; KHMELEVA, V.

"You live wonderfully, comrades!" Okh.truda i sots.strakh. no.1:
48-49 Ja '60. (MIRA 13:5)

1. Ruydovaya brigada zhurnal "Okhrana truda i sotsial'noye strakhovaniye" (for all).
 2. Tekhnicheskii inspektor Moskovskogo gorodskogo soveta profsoyuzov (for Kluts).
 3. Insbener po tekhnike bezopasnosti Rostokinakogo mekhovogo kombinata (for Kotlyar).
 4. Obshchestvennyy inspektor okhrany truda mekhanosborezhbinata (for Kotlyar).
 4. Obshchestvennyy inspektor okhrany truda mekhanosborechnogo tsekha zavoda "Elektroschetnik" (for Chugunkin).
 5. Obshchestvennyy inspektor okhrany truda Vtorogo trolleybusnogo parka (for Suray).
 6. Spetsial'nyy korrespondent zhurnal "Okhrana i truda i sotsial'noye strakhovaniye" (for Khmeleva).
- (Moscow--Trolley buses)

KLUTS, L. Ya.

Standard device for placing the power cable used with tower
cranes. Rats. 1 isobr. predl. v stroi. no.110:8-10 '55.
(Cranes, derricks, etc.) (MIRA 8:10)

KOTLYAROV, Ye.L., inzh.; KLUTS, L.Ya., inzh, spets. red.; AZRILYANT,
Ya.M., red. izd-va; GILSON, P.G., tekhn. red.

[Collected official materials on work safety for the building
materials industry] Sbornik ofitsial'nykh materialov po okhrane
truda na predpriyatiakh stroitel'nykh materialov. Moskva,
Gos. izd-vo lit-ry po stroit., arkhitekt. i stroit. materialam,
1961. 371 p. (MIRA 14:9)

1. Profsoyus rabochikh stroitel'stva i promyshlennosti stroitel'-
nykh materialov.
(Building materials industry—Safety measures)

RYAZANTSEV, K.G.; KLUTS, L.Ya., spets. red.; TABUNINA, M.A., red. izd-
va; RUDAKOVA, N.I., tekhn. red.

[Regulations on accident prevention and industrial hygiene in
construction and assembly work] Sbornik pravil tekhniki bez-
opasnosti i proizvodstvennoi sanitarii pri proizvodstve stroitel'-
montazhnykh rabot. Moskva, Gosstroizdat, 1961. 330 p.

(MIRA 15:12)

1. Profsoyuz rabochikh stroitel'stva i promyshlennosti stroitel'-
nykh materialov.

(Building—Safety measures)

RYAZANTSEV, K.G.; KLUTS, L.Ya., nauchn. red.; PATENOVSKAYA, M.I.,
red.; TARKHOVA, K.Ye., tekhn. red.

[Public control of labor safety in construction and in
enterprises of the building materials industry] Obshche-
stvennyi kontrol' po okhrane truda v stroitel'stve i na
predpriyatiyakh promyshlennosti stroimaterialov. 2, perer.
i dop. izd. Moskva, Gosstroisdat, 1963. 165 p.

(MIRA 16:10)

(Building--Safety measures)

SUDARIKOV, V.Ye., insh., red.; ~~KLITS~~ ~~L.Ye.~~, insh., red.; PAVLOV, S.M., insh., red.; BARANOV, L.A., insh., red.; PEVNER, A.S., red.isd-va; RODIONOVA, V.M., tekhn. red.

[Construction norms and regulations] Stroitel'nye normy i pravila. Moskva, Gosstroisdat. Pt.3. Sec.A. ch.11.[Safety engineering in construction] Tekhnika bezopasnosti v stroitel'stve (SNiP III-A. 11-62). 1963. 102 p. (MIRA 1618)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosudarstvennyy komitet po delam stroitel'stva Soveta Ministrov SSSR (for Sudarikov). 3. Tsentral'nyy komitet profsoyusa rabochikh stroitel'stva i promyshlennosti stroitel'nykh materialov (for Klits). 4. Mezhdunarodnaya komissiya po peresmotru Stroitel'nykh norm i pravil Akademii stroitel'stva i arkhitektury SSSR (for Pavlov). 5. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for Baranov).

(Construction engineering—Safety measures)

KLUVANER, Lgdy

✓ Kluvaner, Igor. On systems of sets closed with respect
to certain set operations. Mat.-Fyz. Casopis Slovensk.
Akad. Vied 5 (1955), 191-211 (Slovak)
Expository article. E. Howard (Princeton, N.J.)

13

KLOVANER, I.

Klováněk, I. — Abstract integral as a positive functional
and the theorem on extension of measure. Mat.-Fyz.
Časopis. Slovensk. Akad. Vied 6 (1956), 3-9. (Czech.
Russian summary)

The author proves two lemmas about integrals in an
abstract space which lead to the well-known theorem: if μ
is a σ -finite measure on a ring R , then there exists a
unique complete measure β on a certain σ -ring S con-
taining R such that $\mu(E) = \beta(E)$ for sets E in R .

From the author's summary.

gmu

KLUVANEK, J.

Notes on the extension of measure.

p 108 (Matematiko-Fyzikalny Casopis.) Vol. 7, no. 2, 1957. Bratislava, Czechoslovakia.

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 1, Jan 1958

KLUVANEX, I.

"Vector measure."

p. 186 (Matematicko-Fyzikalny Casopis) Vol. 7, no. 3, 1957
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

KLUVANEK, Igor

The theory of vector measures. Mat fys cas SAV 11 no.3:
173-191 '61.

1. Katedra matematiky, Slovenska vysoka skola technicka,
Bratislava, Gottwaldovo namesti 2.

KLUVANEK, Igor

Representation of linear transformations in the form of integral.
Mat fys cas SAV 12 no.4:241-245 '62.

1. Katedra matematiky a deskriptivnej geometrie, Elektrotechni-
cka fakulta, Slovenska vysoka skola technicka, Bratislava,
Gottwaldovo namesti 2.

KLIJIVANEK, Igor

Some generalisation of the Bress-Kakutani theorem. Chakhsol mat
zhurnal 13 no.1:89-113 Mr '63.

1. Slovenska vysoka skola technicka, Bratislava, Gottvaldovo
námestí 2.

KLUVANEK, Igor; RIECHAN, Beloslav [Riecan, Beloslav]

Some properties of the Bernoulli schemata. Mat fyz cas SAV
14 no. 2:83-88 '64.

1. Chair of Mathematics, Faculty of Natural Sciences, P.J. Safarik University, Kosice, Srobarova 57 (for Kluvanek).
2. Chair of Mathematics and Descriptive Geometry, Faculty of Building, Slovak Higher School of Technology, Bratislava, Gottwaldovo namesti 2 (for Riecan).

KLUVANEK, Igor

Sampling theorem in abstract harmonic analysis. Mat fya cas
SAV 15 no.1:43-48 '65.

1. Chair of Mathematics of the Faculty of Natural Sciences
of Safarik University, Kosice. Submitted December 27, 1963.

L 3026-66 EWT(4)/T/EMP(1) IJP(o)

ACCESSION NR: AP5026543

CZ/0045/65/000/001/0043/0048

AUTHOR: Kluvanek, Igor (Kluvanek, Igor')(Kosice)

TITLE: Sampling theorem in abstract harmonic analysis

SOURCE: Matematicko-fyzikalny casopis, no. 1, 1965, 43-48

TOPIC TAGS: harmonic analysis, information theory

ABSTRACT: The origin of the sampling theorem cited in the literature on information theory, e.g. by Shannon, is difficult to trace. This article establishes and proves the sampling theorem in terms of abstract harmonic analysis. Orig. art. has: 9 formulas.

ASSOCIATION: Katedra matematiky, Prirodovedeckej fakulty, University P. J. Safarika, Kosice (Department of Mathematics, Faculty of Natural Sciences, P. J. Safarik University)

SUBMITTED: 27Dec63

ENCL: 00

SUB CODE: MA

NR REF SOV: 003

OTHER: 004

JPRS

Card 1/1

ACC NR: AP6029575

SOURCE CODE: CZ/0045/65/000/002/0146/0161

AUTHOR: Klivanek, Igor (Kosice)

ORG: Department of Mathematics, Faculty of Natural Sciences, P. J. Safarik
University, Kosice (Katedra matematiky, Prirodovedecka fakulta, Universita P. J.
Safarika)

TITLE: ¹⁶
Daniel vectorial integral

SOURCE: Matematicko-fyzikalny casopis, no. 2, 1965, 146-161

TOPIC TAGS: Banach space, vector analysis

ABSTRACT: The article gives a generalized theory of the Daniell integral of such
a type that the values of the integral can belong to an arbitrary Banach space.
Orig. art. has: 10 formulas. [Orig. art. in French] [JPRS]

SUB CODE: 12 / SUBM DATE: 24Apr64 / ORIG REF: 002 / OTH REF: 007

Cord 1/1 11/11

L 38328-66 EWT(d)/T IJP(o)

ACC NR: AP6028000

SOURCE CODE: CZ/0045/66/000/001/0076/0081

AUTHOR: Kluvanek, Igor (Kosice)

ORG: Department of Mathematics, Faculty of Natural Sciences, P. J. Safarik University, Kosice (Katedra matematiky, Prirodovedocka Fakulta, Univerzita P. J. Safarik)

TITLE: Contribution to the theory of vector measures. II

SOURCE: Matematicko-fyzikalny casopis, no. 1, 1966, 76-81

TOPIC TAGS: vector, measure, theory, mathematic space, group theory

ABSTRACT: Necessary and sufficient conditions are given for the existence on a δ -ring T or a σ -ring S of a measure with values in a linear topological locally convex space X which coincides with a given measure with values in X on a ring generating T or S respectively. [Based on author's Eng. abst.] [JPRS: 36,845]

SUB CODE: 12 / SUBM DATE: 26Feb65 / ORIG REF: 002 / SOV REF: 001
OTH REF: 002

Card 1/1

TRNOVEC, T.; BENO, M.; ZBORIL, V.; RUSEK, V.; PLESKOVA, A.;
KLUVANEK, P.

Effect of intensification of the absorptive processes of bone
tissue by vitamin A on the uptake of radiocerium. Bratisl. lek.
listy 43 Pt. 1 no.9:529-535 '63.

1. Ustav hygieny prace a chorob z povolania v Bratislave,
riaditel MUDr. I. Klucik.

(CERIUM ISOTOPES) (VITAMIN A)
(BONE AND BONES) (METABOLISM)
(FEMUR) (RATS)

KUBIK, S.; KLUVANEK, P.; PODOLSKA, L.

Diurnal variations of pyruvic acid in man at rest and during work.
Pracovní lek. 12 no.7:336-340 S '60.

1. Ústav hygieny práce a chorob z povolání v Bratislavě, ředitel
MUDr. I. Klucík.

(PYRUVATES blood)

(EXERTION blood)

KLOVANEK, P.; DURCEK, K.; MASARYK, S.; MINARIK, F.; za tech.spoluprace
URICKA, L.; DOUPOVCA, V.

Effect of technical shortcomings of roentgeno-diagnostic equipment
on spreading of secondary radiations. Cesk.rentg. 15 no.1:30-36
F '61.

1. Ustav hygieny prace a chorob s povolania v Bratislave, riaditel
MUDr. I. Klucik.
(RADIATION PROTECTION)

5

OZECHOSLOVAKIA
TRNOVEC, T; BENO, M; ZBORIL, V; RUSEK, V; PLESKOVA, A;
KLUVANEC, P.

Institute of Industrial Hygiene and Occupational Disease
(Ustav hygieny prace a chorob z povolania), Bratislava
(for all)

Bratislava, Bratislavské lekárske listy, No 9, 1963, pp 529-
533

"The Effect of Intensification by Vitamin A of Resorption
Processes in the Bone Tissue on Radioactive Cerium
Fixation."

(4)

CZECHOSLOVAKIA

SCHWEITZER, P., HILDEBRAND, T., KLV/NOVA, H., GR MOROVA, J.,
GALAJDOVA, E., SIMKO, S.; 1st. Internal Clinic, Medical Faculty,
P.J.Safarik University (I. Interna Klinika Lok. Fak. UPJS),
Kosice.

"Contribution to the Problem of the Relationship Between the
Sympathoadrenal System and the Thyroid Gland."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, p 102

Abstract: 8 healthy subjects, 9 patients suffering from neuro-
circulatory asthenia, and 30 from thyrotoxicosis were used in an
experiment to study the influence of blockage and tone increase
of sympathetic on pulse frequency. The blockage resulted in a
frequency decrease in the patients from 100 to 80-90, with no
influence on controls. The orthostatic changes were in controls
77-91, in patients from 100 to 110-120. No references.
Submitted at "16 Days of Physiology" at Kosice, 29 Sep 65.

MOROTOV, M.Ye., and. tech. rank; KLUYEVA, K.L., instr.

Investigating air turbines for metal spraying equipment with
centrifugal friction regulators of the wire feeding speed. Trudy
VNIITAviogen no. 10-118-231 1964.
(MIRA 17:10)

KLOYEVA-YABLOKOVA, T.B.; RAKHIMOVA, N.O.

Effect of the conditions of preparation of the productive
strain on the quality of BCG vaccine. Trudy IEM no.8:256-
262 '61.
(MIRA 17:2)

True lines
30

1941. T. Klotz, "Airplane hangars (Hungary hangars)"
in: *Handbook*, vol. 4, Sept. 1941, pp. 310-361, vol. 4, Nov.
1941, pp. 401-403; vol. 4, Mar. 1942, pp. 104-115, vol. 4, Apr.
1942, pp. 169-171.

Practical and theoretical principles of hangar construction are
discussed. After discussing of the general requirements, in par-
ticular for hangars of large span, the advantages and disad-
vantages of various designs are taken up. Hangars of steel,
reinforced concrete, and prestressed concrete are given particular
attention.

Cost and weight data are given, with sketch-type construction
explained. Prestressing is mentioned and the Th. Toman
hangar system is shown to result in material saving. Finally,
various designs of hangar doors are discussed.

W. Klotz, P. Schmid

Kluz T.

Kluz T., Prof. "Use of Reinforced Concrete Elements in Halls." (Zalbetowe elementy w zastosowaniu do hal). Przeglad Budowlany, No 10-11, 1949, pp. 415-420, 1 fig. 2 tabs.

A disadvantage in reinforced concrete constructions is the high cost of wood used for boarding and scaffolding. A considerable decrease in wood consumption can be obtained by using stock-size scaffolding and boarding and by using ready-made concrete or reinforced concrete elements. Possibility to lower the relatively high cost of 1 m³ of thin-walled ready-made reinforced concrete structure. A comparative list of materials in arched reinforced concrete roofs with a span of 12, 18, 24, 30, and 36 m, and a table of cost for similar spans. The examination includes in both cases construction with board skeleton, and the "TK" (partly fabricated) construction. Finally the author gives his proposals and advice with an interesting view on the problem of saving wood which is in short supply.

SO: Polish Technical Abstracts No. 2, 1951

Kluz, T. A.

Polish Technical Abst.
No. 1 1954
Building Industry and
Architecture

147

✓ Kluz T. A New Method of Concrete Designing.

060.571.1.001.4

"Nowa metoda projektowania betonu". Inżynieria i Budownictwo.
No. 2, 1953, pp.68-78, 3 figs. 11 tabs.

The problem of choosing concrete components (cement, water, aggregate) is solved by determining these three unknowns from three equations -- concrete strength, absolute volume and water absorptiveness of cement and aggregate. In order to facilitate the calculations, tables were prepared with indications as to how to use them for practical cases of planning concrete mixtures. On the basis of these tables, the influence of individual components on the concrete strength was considered. The examples given show the excessive use of cement in present simplified methods of planning concrete mixtures.

KUZ, T.

Polish Technical Abst.
No. 1 1954
Building Industry and
Architecture

7981

Kuz, T. High-Grade Steels for Prestressed Constructions.

"Wysokowartościowe staki do konstrukcji sprężonych". Inżynieria i Budownictwo No. 4, 1953, pp. 129-136, 8 figs., 5 tabs.

The requirements with which steels used in prestressed constructions have to comply are very exacting. Hard steels are those in common use for this type of constructions, particularly in the case of chord concrete. The second group of steels used in prestressed constructions includes high-grade soft alloy-steels which, as a result of the alloying elements contained in them, reveal a high tensile strength. The Polish standard specification PN/B-03310 provides for hardened and drawn carbon steel chord. Experiments are being carried out with, in addition to 8 mm chord, also 1.5 and 2.5 mm chord which is now being produced in Poland.

0.125
0.125-0.125

KLUZ, T.

"Some Remarks Concerning the Method of Designing Concrete Ingredients Based on Diagrams and Numerical Tables as well as on Grading Index Number." p. 252
(Inzyniera I Budownictwo, Vol. 10, No. 8, Aug. 1953, Warszawa)

SO: Monthly List of East European Accessions, Vol. 3, No. 6, Library of Congress, June, 1954, Uncl.

KLUZ, T.

"High-Strength Concrete for Prepressed Concrete Constructions." p. 391 (Inzyniera I
Budownictwo, Vol. 10, No. 12, Dec. 1953, Warszawa)

SO: Monthly List of East European Accessions, Vol. 3, No. 6, Library of Congress, June,
1954, Uncl.

KDZ, T.

"Prefabrication of Parts for Culverts and Small Bridges: a Report Read at the Scientific Session of Road Builders." p. 56, (DROGOMICTWO, Vol. 9, No. 3, Mar. 1954. Warszawa, Poland.)

SO: Monthly List of East European Accessions, (REAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

KLUX 7.

2

3076
 Klu T. The Problem of Using Chord Steel in Piles and Compressed
 Elements of Prestressed Concrete.
 „Zagadnienia stosowania stali sznurowej w słupach i elementach
 ściśniętych z betonu sprężonego”, Inżynieria i Budownictwo, No. 12, 1964,
 pp. 305-376, 15 fig., 1 tab.
 Presentation of results of tests over the use of chord steel of maxi-
 mum resistance for piles and compression parts of prestressed and rein-
 forced elements. Discussion of various stresses by and advantages
 accruing from the kind of construction. Also with concrete piles reinfur-
 ced with wooden prestressed inserts have revealed that full cooperation
 is possible between steel and concrete. It is shown that full cooperation
 and concrete of at least 400 kg/cm² compressive strength in axially com-
 pressed piles of concrete reinforced with prestressed inserts; the same
 applies in full sections of prestressed piles.

KLUZ, T.

"Prospects for development of prefabrication in building." p. 394.
(PRZEGLAD TECHNICZNY. Vol. 75, No. 11, Nov. 1954. Warszawa, Poland)

SO: Monthly List of East European Accessions. (REAL). LC. Vol. 4, No. 4.
April 1955. Uncl.

KLUZ, TOMASZ

Technika i wytyczne wykonywania sprężonych belek kablowych. (Wyd. 1.) Warszawa, Budownictwo i Architektura, 1955. 191 p. (Technique and directives for making prestressed beams. 1st ed. illus., bibl., diags., footnotes)

SOURCE: East European Accessions List, (EEAL), Library of Congress, Vol. 45, no. 12, December 1955

KLUZ T.

1946 (00134047)
 Kise V. Pyman K. Production of Pre-hatched Osmotrophic Elements
 from New Gypsum

"Proizhizheniye primeryvayushchikh elementov biosferologicheskogo razvitiya iz novogo gipsa". Materialy Sovetskoye Nauch. 1, 1954, pp. 1-11, 14 Sps. 4 tabs.

A report of laboratory investigations conducted at the Institute of Pre-hatched Osmotrophic Production of the Western Polytechnic over a new method for the production of pre-hatched elements from new gypsum. With this method, the elements are formed from new gypsum ground, and mixed with water and shown stored in an incubator, which enables the system to be at least 1.5 minutes of water. The elements to that introduced, the system would grow, combined with water and bacteria. The process has a crystalline structure and is highly resistant, requiring all operations for the production cycle within 10 minutes. It includes the process of drying and repeated gridding. The investigators assessed the properties of the system produced by the new method, and the results were as follows:

MT

①

KLUZ, T

6214

621.814 : 696.902.3

Kluza, T. Owini, E., English, J. The Most Prestressed Concrete Bridges in Poland.

"Nowe konstrukcje i technologia w budownictwie mostowym w Polsce". Inżynieria i Budownictwo, No. 2, 1955, pp. 63-72, 25 figs., 4 tabs.

The authors describe concrete bridges prestressed, using cable anchors, by cables constructed in this country. The equipment for tensioning was designed and the technique elaborated by the Warsaw Polytechnic Department of Prestressing and Prestressed Concrete. On the basis of theoretical research conducted at the Department in 1953 and 1954, the first five span bridges were constructed as the simplest concrete prestressed by cables bridge constructions of short span not exceeding 20 m. The characteristic features of the design are reviewed and the range of use of bridge constructions of this type is discussed. The next step was the design and construction, also at the Department, of a beam bridge. Details of construction and the savings effected in materials are described, together with the investigation of the capacity of prestressed structures to bear dynamic loads at low temperatures.

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p. 4 (Budownictwo Wiejskie) Vol. 7, No. 4, July/Aug., 1955, Warszawa, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

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"Wire-concrete board inlays" (Strunobetonowe wkładki deskowe), by T. Kluz.
Reported in New Books (Nowe Książki), No. 11, July 15, 1955

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"Beton kablowy" (Cable concrete), by T. Kluz. Reported in New Books (Nowe Książki), No. 11, June 1, 1956.

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Investigations on beams of reinforced concrete with board inserts made of prestressed concrete. p. 149

(INZYNIERIA I BUDOWNICTWO, Vol. 13, No. 4, Apr. 1956 Warsaw, Poland)

SO: MONTHLY List of East European Accessions (EEAL) LC, Vol. 6, No. 9, Sept. 1957, Uncl.

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Problems of prestressed concrete pillars. p. 255.
(INZYNIERIA I BUDOWNICTWO. Vol. 13, no. 6, June 1956, Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 12, Dec. 1957.
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Contribution to the nesting biology of the lapwing (*Vanellus vanellus* (L)). p. 15
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~~KLH~~, TOMASE ~~KLU~~

POLAND / Chemical Technology, Chemical Products and Their
Application. Part 2. - Ceramics, Glass, Binders,
Concretes. - Binders, Concretes and Other Silicate
Building Materials.

H-13d

Abs Jour : Ref. Zhur. Khimiya, No 4, 1958, 12136.

Author : ~~Tomasz Klawns~~

Inst : Not given

Title : Study of Reduced Cycle of Thermal Treatment of Concrete
and Reinforced Concrete Assembly Elements.

Orig Pub : Inst-ia i budown., 1957, 14, No 5, 181 - 188.

Abstract : Laboratory experiments with a reduced cycle of steaming
and autoclave treatment of concrete specimens were carried
out. 3 hour steaming in closed moulds at the temperature
of 75° permits to obtain 36 to 65% of R₂₈ one day later,

Card 1/2

Card 2/2

POLAND/Chemical Technology - Chemical Products and Their
Applications - Ceramics, Glass, Bonding
Materials, Cements.

H.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 37083

Author : Kluz, T.

Inst : -

Title : A Study of Fire Proofness of Wire Reinforced Cement
Elements under Tension.

Orig Pub : Inzia 1 Budown, 1957, 14, No 9, 308-318

Abstract : Studies were made of fire proofness of small beam speci-
mens of wire reinforced cements, (3 x 5 x 25 cm in size)
subjected to an axial load. It was established that in
the presence of a 10 mm protective layer the specimens
withstood a 4 hrs. heating cycle at 600°C without marked
external changes, or crack formation. The reinforced
cement element's strength was lowered by 45% upon heating
to 600°C, as compared to the strength of unheated

Card 1/2

POLAND/Chemical Technology - Chemical Products and Their
Applications - Ceramics, Glass, Bonding
Materials, Cements.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723220006-9"

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 37083

specimens (basalt-filled cement specimens). Precompressed
cement beams were found to be considerably more fire
proof than non-stressed specimens. At 200°C the length
of wires was reduced which resulted in lower stress of
the element.

Card 2/2

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Problem of prestressing reservoirs; some results of technical experiments.

P. 345 (Inzynieria i Budownictwo. Vol. 14, no. 10, Oct. 1957, Warszawa, Poland)

Monthly Index of East European Accessions (EFAI) LC. Vol. 7, no. 2,
February 1958

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Experiments with columns prestressed by means of 2.5 mm. wires. p. 47.

INZYNIERIA I BUDOWNICTWO. (Naczelna Organizacja Techniczna i Polski Związek Inżynierów i Techników Budowlanych) Warszawa, Poland.
Vol. 16, no. 2, Feb. 1959.

Monthly list of East European Accessions Index, (EEAI), LC, Vol. 8, no. 6,
June 1959
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New books. Ins 1 bud 20 no.11.3 of cover - 4 of cover N '63.

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Materials for the production of prestressed concrete. Inz
1 bud 21 no.2:42-47 F 164.

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KLUZ, T., prof. ins. dr.; RIHA, J., prof. ins. DrSc. [translator]

Dimensional deviations of building elements according to the
Polish standards and regulations. Stavivo 42 no.9:323-326 S '64.

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